

THE WALL-MOUNT™ SASO AIR CONDITIONERS

Models K36A to K60A
Models K36L to K60L

Right-Side Control Panel
Left-Side Control Panel
37,500 to 57,500 Btuh
10.99 to 16.85 kW

FOR EXPORT
USE ONLY

The Bard Wall-Mount Air Conditioner is a self contained energy efficient system, which is designed to offer maximum indoor comfort at a minimal cost without using valuable indoor floor space or outside ground space.

This unit is the ideal product for versatile applications such as: new construction, modular offices, school modernization, telecommunication structures, portable structures or correctional facilities. Factory installed accessories are available to meet specific job requirements.

Engineered Features

Aluminum Finned Copper Coils:

Grooved tubing and enhanced louvered fin for maximum heat transfer and energy efficiency. Coated coils available.

Twin Blowers:

Move air quietly. Most models feature multispeed blower motors providing airflow adjustment for high and low static operation. Motor overload protection is standard on all models.

R-410A Refrigerant:

Designed with R-410A (HFC) non-ozone depleting refrigerant in compliance with the Montreal protocol.

Phase Rotation Monitor:

Standard on all 3 phase scroll compressors. Protects against reverse rotation if power supply is not properly connected. Not required on reciprocating compressors.

Galvanized 20 Gauge Zinc Coated Steel Cabinet:

Cleaned, rinsed, sealed and dried before the polyurethane primer is applied. The cabinet is handsomely finished with a baked on textured enamel, which allows it to withstand 1000 hours of salt spray tests per ASTM B117-03. Stainless Steel cabinets are also available.

Foil Faced Insulation:

Standard on all units.

Full Length Mounting Brackets:

Built into cabinet for improved appearance and easy installation.

NOTE: Bottom mounting bracket included to assist in installation.

Electrical Components:

Are easily accessible for routine inspection and maintenance through a side, service panel opening. Features a lockable, hinged access cover to the circuit breaker or toggle disconnect switch. Extreme Duty Door is standard and Moderate Duty Door is optional.

Electric Heat Strips:

Features an automatic limit and thermal cut-off safety control. Heater packages are factory installed.

Filter Access Panel:

Separate panel provides easy access for filter change.

Two Inch, Pleated Air Filters:

Are standard equipment.

Condenser Fan and Motor

Shroud Assembly:

Slides out for easy access. Fan motor is a sealed motor.

Built-in Circuit Breakers:

Standard on all versions of single (230/208 volt) equipment. Single phase models pending. Toggle disconnects are standard on all versions of three phase (400 volt) equipment.

Slope Top:

Standard feature for water run-off.

Top Rain Flashing:

Standard feature on all models.

Freezestat:

Standard on all Models.

Liquid Line Filter Drier:

Standard on all units. Protects system against moisture.



KL Left-Hand Unit Shown**

Compressor Control Module:

Standard on all units. Built-in off-delay timer adjustable from 30 seconds to 5 minutes. 2-minute on-delay if power interrupt. 120-second bypass for low pressure control, and both soft and manual lockouts for high and low pressure controls. Alarm output for alarm relay.

High & Low Pressure Switches are Auto-Reset:

Standard on all units. Built-in lockout circuit resets from the room thermostat. Provides commercial quality protection to the compressor.

Low Ambient:

Standard on all units.

Alarm Relay:

Standard on all units.

- Tested in accordance with SASO 2874/2016, SASO 2681, 2682.
- Intertek ETL Tested to Standard IEC 60335-2-40:2002 (Fourth Edition) + A1:2005 (incl. Corr. 1:2006) + A2:2005 in conjunction with IEC 60335-1:2010 (Fifth Edition)

Bard is an
ISO 9001:2008
Certified Manufacturer

Certified Capacity and Efficiency Ratings, Full Load Operation

MODELS	K36A2/K36L2	K48A2/K48L2	K60A2/K60L2
Tier 1, Cooling BTUH (kW), 35-27/19 ①	36,500 (10.69)	47,500 (13.92)	56,500 (16.55)
EER ②	11.5	11.5	11.5
Rated CFM	1100	1550	1650
Tier 3, Cooling BTUH (kW), 46-29/19 ①	28,500 (8.35)	40,500 (11.87)	50,000 (14.65)
EER ②	8.28	8.28	8.28
Rated CFM	1100	1550	1650
Cooling BTUH (kW), 52-27/19	26,500	36,500 (10.69)	45,500 (13.33)
EER	7.2	6.9	7.0
Rated CFM	1100	1550	1650
Cooling BTUH (kW), 55-27/19 ①	24,500 (7.18)	34,500 (10.11)	43,000 (12.60)
EER ②	6.5	6.1	6.2
Rated CFM	1100	1550	1650

① Tested in accordance with SASO 2874/2016, SASO 2681, 2682.

② EER = Energy Efficiency Ratio – BTU/WATT efficiency.

Specifications 3-Ton through 5-Ton

MODELS	K36A2-N K36L2-N	K48A2-N K48L2-N	K60A2-N K60L2-N
Electrical Rating	400-60-3	400-60-3	400-60-3
Operating Voltage Range	360-440 VAC	360-440 VAC	360-440 VAC
Compressor			
Voltage	400-3	400-3	400-3
Rated Load Amps	4.9	6.1	7.5
Branch Circuit — Selection Current	5.5	7.6	8.0
Lock Rotor Amps	38	51.8	66
Compressor Type	Reciprocating	Scroll	Scroll
Fan Motor			
HP	1/3	1/3	1/2
Volts	400-1	400-1	400-1
Full Load Amps	1.3	1.3	2.3
CFM	2700	2700	3000
Blower Motor			
HP	1/2	1/2	1/2
Volts	400-1	400-1	400-1
Full Load Amps	0.6	1.7	1.3
Shipping Weight --LBS.	485	530	530

+ 75°C Wire

++ HACR type circuit breaker

Electrical Specifications – Circuit Ampacity

MODEL	Rated Volts, Hertz & Phase	No. Field Power Circuits	Single Circuit			
			① Minimum Circuit Ampacity	② Maximum External Fuse or Ckt. Brkr.	③ Field Power Wire Size	③ Ground Wire
K36A2/L2-NOZ -N06	400-60-3	1	8.2	10	14	14
		1	9.8	15	14	14
K48A2/L2-NOZ -N06	400-60-3	1	12.7	15	14	14
		1	12.7	15	14	14
K60A2/L2-NOZ -N06	400-60-3	1	14.1	20	12	12
		1	14.1	20	12	12

① These "Minimum Circuit Ampacity" values are to be used for sizing the field power conductors. Refer to the National Electrical code (latest version), Article 310 for power conductor sizing.

② Maximum size of the time delay fuse or HACR type circuit breaker for protection of field wiring conductors.

③ Based on 75C copper wire. All wiring must conform to the National Electrical Code and all local codes.

Cooling Performance Table

Model	Return Air (DB/WB) ③	Cooling Capacity	75°F 24°C	80°F 27°C	85°F 30°C	90°F 32°C	95°F 35°C	100°F 38°C	105°F 41°C	110°F 43°C	115°F 46°C	120°F 49°C	125°F 51.6°C	131°F 55°C
K36	75/62 F	Total Cooling	40200	37900	35900	33800	31800	30000	28200	26400	24700	23000	21800	20400
	24/17 C	Sensible Cooling	30400	29300	28300	27300	26500	25600	24800	24000	23400	22700	21200	19500
	80/67 F	Total Cooling	42900	41300	39800	38200	36500	34900	33200	31500	29700	27900	26100	24100
	27/20 C	Sensible Cooling	29500	28700	28000	27300	26700	26000	25400	24800	24300	23700	23200	22500
	85/72 F	Total Cooling	51100	48300	45700	43100	40600	38200	35800	33500	31200	29000	26900	24600
	30/22 C	Sensible Cooling	30200	29200	28200	27100	26200	25200	24200	23300	22400	21400	20600	19600
K48	75/62 F	Total Cooling	48700	46700	44800	42800	40900	39100	37200	35400	33500	32100	30100	28100
	24/17 C	Sensible Cooling	39900	39200	38400	37600	36800	35900	35000	34100	33100	31800	29800	27800
	80/67 F	Total Cooling	52000	50900	49700	48400	47500	45500	43900	42200	40300	38300	36200	34100
	27/20 C	Sensible Cooling	38700	38400	38000	37600	37100	36500	35900	35200	34400	33600	32700	31800
	85/72 F	Total Cooling	62000	59500	57100	54700	52200	49800	47300	44900	42400	39800	37300	34800
	30/22 C	Sensible Cooling	39600	39000	38200	37400	36400	35300	34200	33000	31700	30400	28900	27400
K60	75/62 F	Total Cooling	59000	56500	53900	51600	49200	47000	44900	42800	40900	38900	37100	35300
	24/17 C	Sensible Cooling	45200	44000	42700	41600	40500	39400	38400	37400	36400	35400	34500	33600
	80/67 F	Total Cooling	63000	61500	59900	58300	56500	54800	53000	51100	49200	47200	45200	43200
	27/20 C	Sensible Cooling	43800	43100	42300	41600	40900	40100	39400	38600	37900	37100	36300	35500
	85/72 F	Total Cooling	75100	71900	68800	65800	62800	60000	57200	54400	51700	49100	46500	43900
	30/22 C	Sensible Cooling	44900	43800	42500	41300	40100	38800	37600	36200	34900	33500	32100	30700
Capacity Multiplier Factors														
% of Rated Airflow											-10	Rated	+10	
Total BTUH											0.975	1.0	1.02	
Sensible BTUH											0.950	1.0	1.05	

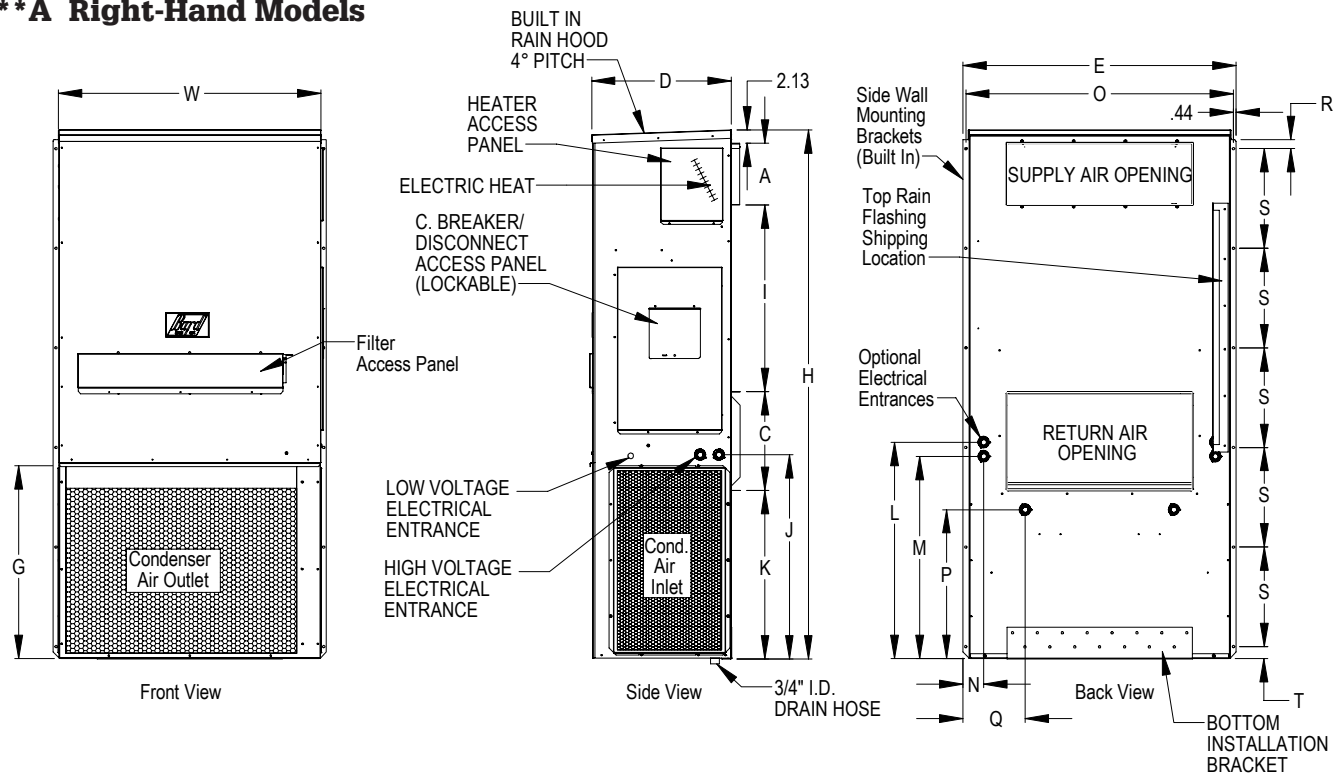
- ① Below 65°F, unit requires a factory or field installed low ambient control.
 ② Outdoor temperatures shown are measured at the condenser section air inlet.
 ③ Return air temperature °F.

Dimensions of Basic Unit for Architectural & Installation Requirements - Inches (mm)

MODEL	WIDTH (W)	DEPTH (D)	HEIGHT (H)	SUPPLY		RETURN															
				A	B	C	B	E	G	I	J	K	L	M	N	O	P	Q	R	S	T
K36A/L	42.075 (1069)	22.432 (570)	84.875 (2156)	9.88 (251)	29.88 (759)	15.88 (403)	29.88 (759)	43.88 (1115)	31.66 (804)	30.00 (762)	32.68 (830)	26.94 (684)	34.69 (881)	32.43 (824)	3.37 (86)	43.00 (1092)	23.88 (607)	10.00 (254)	1.44 (37)	16.00 (406)	1.88 (48)
K48A/L K60A/L	42.075 (1069)	22.432 (570)	93.000 (2362)	9.88 (251)	29.88 (759)	15.88 (403)	29.88 (759)	43.88 (1115)	37.00 (940)	30.00 (762)	35.06 (891)	32.81 (837)	42.81 (1087)	40.56 (1030)	3.37 (86)	43.00 (1092)	31.00 (787)	10.00 (254)	1.44 (37)	16.00 (406)	10.00 (254)

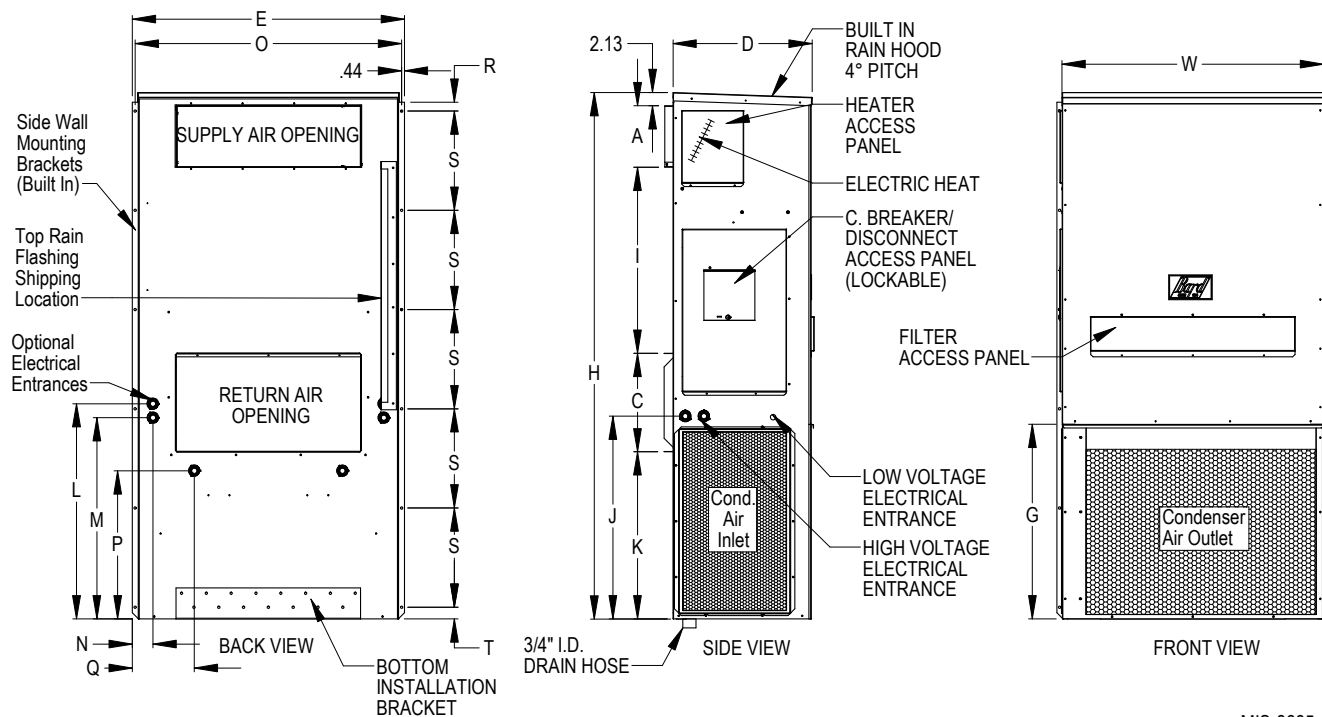
All dimensions are in inches. Dimensional drawings are not to scale.

K**A Right-Hand Models



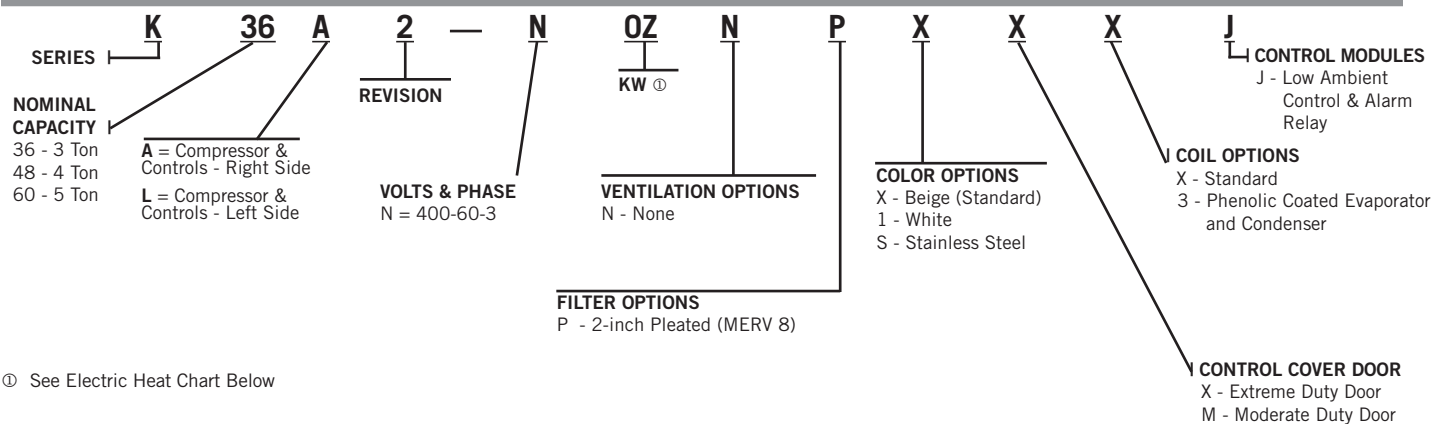
K**L Left-Hand Models

MIS-3666 A



MIS-3665 A

Air Conditioning Wall-Mount Model Nomenclature



① See Electric Heat Chart Below

Electric Heat Table – Refer to Electrical Specifications for Availability by Unit Model

NOMINAL KW	At 400V ②		
	KW	3-Phase Amps	Btuh
06	6.25	9.0	21,331

② These electric heaters are available in 400V units only.



Bard Manufacturing Company, Inc.
 Bryan, Ohio 43506
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Due to our continuous product improvement policy,
 all specifications subject to change without notice.

Before purchasing this appliance, read important energy cost
 and efficiency information available from your retailer.

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S3498
 December 2017

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 Supersedes S3498-617
 Page 5 of 5